



Section 1: Monitoring Program Update

Multi-Species Monitoring Program: Update

The Multi-Species Monitoring Program begun by PALCO in 1995 was continued in 1996 and 1997 using the same methodology described in the Kennedy and Hiss Draft report following this update. In general, information was collected on the vegetative and animal components. Overstory and understory vegetative components were measured. Five components of the terrestrial vertebrate investigation were employed: 1) pit trapping for herpetofauna and small mammals; 2) timed area search for herpetofauna; 3) point count surveys for birds; 4) remote photo sensing; and 5) casual observations of animals or their sign on the plots. In 1995, 109 plots were established in habitats ranging from perennial grassland to old growth forest in the Beer Bottle, Camp, and Elkhead planning watersheds. In 1996, 76 plots were established in a range of habitats in the Beer Bottle, Camp, Elkhead, and Freshwater watersheds. In 1997, 83 plots were established in the Beer Bottle, Camp, Elkhead, Freshwater, and Shively watersheds. The tables attached to this update present the results for 1995, 1996, and 1997.

Following the 1995 data collection, several methods were used to analyze the data. The Shannon Diversity Index was used as one quantitative measure of species richness and frequency (see discussion in draft report). Species were grouped into guilds using cluster analysis based on relative frequency. The results were also compared to the California Wildlife Habitat Relationships Model.

As discussed by Taylor and Munholland (Volume II, Part L of this Plan), the data gathered in the multi-species study in 1995 were used in an attempt to aggregate species into groups that require similar ecological conditions. The point of trying to refine the guild approach was to identify groups of species requiring certain habitat types or habitat components, and therefore possibly open to the management of those habitats and components. Analysis in Taylor and Munholland's approach focused on the multivariate technique of cluster analysis with complete linkage. The authors also conducted a review of the scientific literature for information on wildlife habitat relationships.

The above approaches did not seem to provide clear, positive relationships between species and seral types. Young forests were identified as a seral type with the highest species richness, and also possibly as being very important for a particular group of species, the Neotropical migratory songbirds. Unfortunately, very few clear relationships emerged, and the analyses have not been revisited with the use of the 1996 and 1997 data. Reports on plant and animal species sorted by habitat type, and on plant and animal species richness by seral type for all the data gathered from 1995 to 1997 follow this summary. With all data considered, young forests and late seral habitats again show greatest species richness.

During the process of negotiation of the Plan it became clear that the biodiversity management approach provided useful information on a host of species and their habitats. However, the wildlife and fisheries agencies felt it was unlikely to satisfy the need to mitigate for potential impacts to species which would be authorized for "take" under an ITP. Therefore, the focus switched to the habitat needs of individual species. PALCO intends to continue to analyze the data available from the multi-species study of 1995-1997 to try and reach a better understanding of wildlife habitat relationships, and their management implications.

Plots Per Watershed

1995

Watershed

Beer	Camp	Elk	Fresh	Shively	Total Plots
32	42	35			109

1996

Watershed

Beer	Camp	Elk	Fresh	Shively	Total Plots
18	23	15	20		76

1997

Watershed

Beer	Camp	Elk	Fresh	Shively	Total Plots
14	41	3	5	10	73

1998

Watershed

Beer	Camp	Elk	Fresh	Shively	Total Plots
	6			4	10

Animal Species Richness By Seral

Seral Stage	Animal Species Count
Forest Openings	72
Late Successional	116
Mid Successional	112
Montane Hardwood	76
Perennial Grassland	64
Young Forests	127

Plant Species Richness By Seral

Seral Stage	Plant Species Count
Forest Openings	88
Late Successional	130
Mid Successional	122
Montane Hardwood	98
Perennial Grassland	62
Young Forests	130

Animal Species By Habitat Type

SERAL STAGE

Forest Openings

Amphibians

COMMON	SCIENTIFIC
CALIFORNIA SLENDER SALAMANDER	<i>Batrachoseps attenuatus</i>
OREGON ENSATINA	<i>Ensatina escholtzii</i>
PAINTED ENSATINA	<i>Ensatina escholtzii picta</i>
WESTERN TOAD	<i>Bufo boreas</i>

Birds

COMMON	SCIENTIFIC
ALLEN'S HUMMINGBIRD	<i>Selasphorus sasin</i>
AMERICAN CROW	<i>Corvus brachyrhynchos</i>
AMERICAN GOLDFINCH	<i>Carduelis tristis</i>
AMERICAN ROBIN	<i>Turdus migratorius</i>
BAND-TAILED PIGEON	<i>Columba fasciata</i>
BEWICK'S WREN	<i>Thryomanes bewickii</i>
BLACK HEADED GROSSBEAK	<i>Pheucticus melanocephalus</i>
BLACK-THROATED GRAY WARBLER	<i>Dendroica nigrescens</i>
CALIFORNIA QUAIL	<i>Callipepla californica</i>
CANADA GOOSE	<i>Branta canadensis</i>
CHESTNUT-BACKED CHICKADEE	<i>Parus rufescens</i>
COMMON BUSHTIT	<i>Psaltriparus minimus</i>
COMMON RAVEN	<i>Corvus corax</i>
DARK-EYED JUNCO	<i>Junco hyemalis</i>
GOLDEN EAGLE	<i>Aquila chrysaetos</i>
GOLDEN-CROWNED KINGLET	<i>Regulus satrapa</i>
GREAT BLUE HERON	<i>Ardea herodias</i>
HAIRY WOODPECKER	<i>Picoides villosus</i>
HERMIT THRUSH	<i>Catharus guttatus</i>
HERMIT/BLACK-THROATED GRAY WARBLER	<i>Dendroica occidentalis/nigrescens</i>

HUMMINGBIRD SPECIES	<i>Trochilidae spp.</i>
HUTTON'S VIREO	<i>Vireo huttoni</i>
LESSER GOLDFINCH	<i>Carduelis psaltria</i>
MOURNING DOVE	<i>Zenaida macroura</i>
NORTHERN FLICKER	<i>Colaptes auratus</i>
NORTHERN ROUGH-WINGED SWALLOW	<i>Stelgidopteryx serripennis</i>
OLIVE-SIDED FLYCATCHER	<i>Contopus borealis</i>
ORANGE-CROWNED WARBLER	<i>Vermivora celata</i>
OSPREY	<i>Pandion haliaetus</i>
PACIFIC-SLOPE FLYCATCHER	<i>Empidonax difficilis</i>
PURPLE FINCH	<i>Carpodacus purpureus</i>
RED-BREASTED NUTHATCH	<i>Sitta canadensis</i>
RED-TAIL HAWK	<i>Buteo jamaicensis</i>
SCRUB JAY	<i>Aphelocoma coerulescens</i>
SOLITARY VIREO	<i>Vireo solitarius</i>
SONG SPARROW	<i>Melospiza melodia</i>
SPOTTED TOWHEE	<i>Pipilo maculatus</i>
STELLER'S JAY	<i>Cyanocitta stelleri</i>
SWAINSON'S THRUSH	<i>Catharus ustulatus</i>
TURKEY VULTURE	<i>Cathartes aura</i>
VARIED THRUSH	<i>Ixoreus naevius</i>
VAUX'S SWIFT	<i>Chaetura vauxi</i>
VIOLET-GREEN SWALLOW	<i>Tachycineta thalassina</i>
WESTERN BLUEBIRD	<i>Sialia mexicana</i>
WESTERN TANAGER	<i>Piranga ludoviciana</i>
WHITE-CROWNED SPARROW	<i>Zonotrichia leucophrys</i>
WILSON'S WARBLER	<i>Wilsonia pusilla</i>
WINTER WREN	<i>Troglodytes troglodytes</i>
WRENTIT	<i>Chamaea fasciata</i>
YELLOW-BREASTED CHAT	<i>Icteria virens</i>

Mammals

COMMON	SCIENTIFIC
ALLEN'S CHIPMUNK	<i>Eutamias senex</i>
BRUSH RABBIT	<i>Sylvilagus bachmani</i>

CALIFORNIA VOLE	<i>Microtus californicus</i>
COAST MOLE	<i>Scapanus orarius</i>
DEER MOUSE	<i>Peromyscus maniculatus</i>
DOMESTIC DOG	<i>Canis familiaris</i>
DUSKY-FOOTED WOODRAT	<i>Neotoma fuscipes</i>
GRAY FOX	<i>Urocyon cinereoargenteus</i>
OPPOSUM	<i>Didelphis marsupialis</i>
PACIFIC JUMPING MOUSE	<i>Zapus trinotatus</i>
TROWBRIDGE SHREW	<i>Sorex trowbridgei</i>
WESTERN HARVEST MOUSE	<i>Reithrodontomys megalotis</i>

Reptiles

COMMON	SCIENTIFIC
ALLIGATOR LIZARD	<i>Gerrhonotus coeruleus</i>
CALIFORNIA RED-SIDED GARTER SNAKE	<i>Thamnophis sirtalis infernalis</i>
NORTHWESTERN GARTER SNAKE	<i>Thamnophis ordinoides</i>
W. TERRESTRIAL GARTER SNAKE	<i>Thamnophis elegans</i>
WESTERN FENCE LIZARD	<i>Sceloporus occidentalis</i>
WESTERN SKINK	<i>Eumeces skiltonianus</i>

SERAL STAGE

Late Successional

Amphibians

COMMON	SCIENTIFIC
CALIFORNIA SLENDER SALAMANDER	<i>Batrachoseps attenuatus</i>
CLOUDED SALAMANDER	<i>Aneides ferreus</i>
NORTHWESTERN SALAMANDER	<i>Ambystoma gracile</i>
OREGON ENSATINA	<i>Ensatina escholtzii</i>
PACIFIC GIANT SALAMANDER	<i>Diacamptodon ensatus</i>
PACIFIC TREE FROG	<i>Hyla regilla</i>
PAINTED ENSATINA	<i>Ensatina escholtzii picta</i>
RED-LEGGED FROG	<i>Rana aurora</i>
ROUGH-SKINNED NEWT	<i>Taricha granulosa</i>
TAILED FROG	<i>Ascaphus truei</i>

Birds

COMMON	SCIENTIFIC
ACORN WOODPECKER	<i>Melanerpes formicivorus</i>
ALLEN'S HUMMINGBIRD	<i>Selasphorus sasin</i>
AMERICAN GOLDFINCH	<i>Carduelis tristis</i>
AMERICAN ROBIN	<i>Turdus migratorius</i>
ANNA'S HUMMINGBIRD	<i>Calypte anna</i>
BAND-TAILED PIGEON	<i>Columba fasciata</i>
BELTED KINGFISHER	<i>Ceryle alcyon</i>
BEWICKS WREN	<i>Thryomanes bewickii</i>
BLACK HEADED GROSSBEAK	<i>Pheucticus melanocephalus</i>
BLACK-THROATED GRAY WARBLER	<i>Dendroica nigrescens</i>
BROWN CREEPER	<i>Certhia americana</i>
CALIFORNIA QUAIL	<i>Callipepla californica</i>
CANADA GOOSE	<i>Branta canadensis</i>
CEDAR WAXWING	<i>Bombycilla cedrorum</i>
CHESTNUT-BACKED CHICKADEE	<i>Parus rufescens</i>
COMMON BUSHTIT	<i>Psaltriparus minimus</i>
COMMON RAVEN	<i>Corvus corax</i>
DARK-EYED JUNCO	<i>Junco hyemalis</i>
DOWNY WOODPECKER	<i>Picoides pubescens</i>
FOX SPARROW	<i>Passerella iliaca</i>
GOLDEN-CROWNED KINGLET	<i>Regulus satrapa</i>
GRAY JAY	<i>Perisoreus canadensis</i>
HAIRY WOODPECKER	<i>Picoides villosus</i>
HERMIT THRUSH	<i>Catharus guttatus</i>
HERMIT WARBLER	<i>Dendroica occidentalis</i>
HERMIT-/BLACK-THROATED GRAY WARBLER	<i>Dendroica occidentalis/nigrescens</i>
HOUSE WREN	<i>Troglodytes aedon</i>
HUMMINGBIRD SPECIES	<i>Trochilidae spp.</i>
HUT-TON'S VIREO	<i>Vireo huttoni</i>
LAZULI BUNTING	<i>Passerina amoena</i>
MACGILLIVRAY'S WARBLER	<i>Oporornis tolmiei</i>

MARBLED MURRELET	<i>Brachyramphus marmoratus</i>
MOUNTAIN QUAIL	<i>Oreortyx pictus</i>
NORTHERN FLICKER	<i>Colaptes auratus</i>
OLIVE-SIDED FLYCATCHER	<i>Contopus borealis</i>
ORANGE-CROWNED WARBLER	<i>Vermivora celala</i>
PACIFIC-SLOPE FLYCATCHER	<i>Empidonax difficilis</i>
PILEATED WOODPECKER	<i>Dryocopus pileatus</i>
PURPLE FINCH	<i>Carpodacus purpureus</i>
PURPLE MARTIN	<i>Progne subis</i>
RED CROSSBILL	<i>Loxia curvirostra</i>
RED-BREASTED NUTHATCH	<i>Sitta canadensis</i>
RED-BREASTED SAPSUCKER	<i>Sphyrapicus ruber</i>
RED-SHOULDERED HAWK	<i>Buteo lineatus</i>
RED-TAIL HAWK	<i>Buteo jamaicensis</i>
RUBY-CROWNED KINGLET	<i>Regulus calendula</i>
RUFOUS HUMMINGBIRD	<i>Selasphorus rufus</i>
SOLITARY VIREO	<i>Vireo solitarius</i>
SONG SPARROW	<i>Melospiza melodia</i>
SPOTTED TOWHEE	<i>Pipilo maculatus</i>
STELLER'S JAY	<i>Cyanocitta stelleri</i>
SWAJNSONS THRUSH	<i>Catharus ustulatus</i>
SWALLOW SPECIES	
TREE SWALLOW	<i>Tachycineta bicolor</i>
TURKEY VULTURE	<i>Cathartes aura</i>
VARIED THRUSH	<i>Ixoreus naevius</i>
VAUX'S SWIFT	<i>Chaetura vauxi</i>
VIOLET-GREEN SW ALLOW	<i>Tachycineta thalassina</i>
WARBLING VIREO	<i>Vireo gilvus</i>
WESTERN BLUEBIRD	<i>Sialia mexicana</i>
WESTERN MEADOWLARK	<i>Sturnella neglecta</i>
WESTERN TANAGER	<i>Piranga Judoviciiana</i>
WHITE-CROWNED SPARROW	<i>Zonotrichia leucophrys</i>
WILSON'S WARBLER	<i>Wilsonia pusilla</i>
WINTER WREN	<i>Troglodytes troglodytes</i>

Mammals

COMMON	SCIENTIFIC
ALLEN'S CHIPMUNK	<i>Eutamias senex</i>
BLACK BEAR	<i>Ursus americanus</i>
BOBCAT	<i>Lynx rufus</i>
BOTTA'S POCKET GOPHER	<i>Thomomys bottae</i>
BRUSH RABBIT	<i>Sylvilagus bachmani</i>
CALIFORNIA RED-TREE VOLE	<i>Arborimuspomo</i>
CALIFORNIA VOLE	<i>Microtus californicus</i>
CHICKAREE	<i>Tamiasciurus douglasii</i>
CHIPMUNK	<i>Eutamias ochrogenys</i>
COAST MOLE	<i>Scapanus orarius</i>
COYOTE	<i>Canis latrans</i>
DEER MOUSE	<i>Peromyscus maniculatus</i>
DOMESTIC DOG	<i>Canis familiaris</i>
DUSKY-FOOTED WOODRAT	<i>Neotoma fuscipes</i>
FISHER	<i>Martes pennanti</i>
GRAY FOX	<i>Urocyon cinereoargenteus</i>
HOUSE MOUSE	<i>Mus musculus</i>
LONGTAIL VOLE	<i>Mirotus longicaudus</i>
MULE DEER	<i>Odocoileus hemionus</i>
NORTHERN FLYING SQUIRREL	<i>Glaucomys sabrinus</i>
OPPOSUM	<i>Didelphis marsupialis</i>
OREGON VOLE	<i>Microtus oregoni</i>
PACIFIC JUMPING MOUSE	<i>Zapus trinotatus</i>
PACIFIC SHREW	<i>Sorex pacificus</i>
PACIFIC WATER SHREW	<i>Sorex bendirei</i>
RACCOON	<i>Procyon lotor</i>
REDBACK VOLE	<i>Clethrionomys californicus</i>
RINGTAIL	<i>Bassarisca astutus</i>
SHORT-TAIL WEASEL	<i>Mustela erminea</i>
SHREW-MOLE	<i>Neurotrichus gibbis</i>
SPOTTED SKUNK	<i>Spilogale putorius</i>

TROWBRIDGE SHREW	<i>Sorex trowbridgei</i>
WESTERN GRAY SQUIRREL	<i>Sciurus griseus</i>
WESTERN HARVEST MOUSE	<i>Reithrodontomys megalotis</i>

Reptiles

COMMON	SCIENTIFIC
ALLIGATOR LIZARD	<i>Gerrhonotus coeruleus</i>
CALIFORNIA RED-SIDED GARTER SNAKE	<i>Thamnophis sirtalis infernalis</i>
GOPHER SNAKE	<i>Pituophis melanoleucus</i>
SHARP-TAILED SNAKE	<i>Contia tenuis</i>
W. TERRESTRIAL GARTER SNAKE	<i>Thamnophis elegans</i>
WESTERN FENCE LIZARD	<i>Sceloporus occidentalis</i>

SERAL STAGE

Mid Successional

Amphibians

COMMON	SCIENTIFIC
BLACK SALAMANDER	<i>Aneides flavipunctatus</i>
CALIFORNIA SLENDER SALAMANDER	<i>Batrachoseps attenuatus</i>
CLOUDED SALAMANDER	<i>Aneides ferreus</i>
NORTHWESTERN SALAMANDER	<i>Ambystoma gracile</i>
OREGON ENSATINA	<i>Ensatina eschscholtzii</i>
PACIFIC GIANT SALAMANDER	<i>Diucampptodon ensatus</i>
PACIFIC TREE FROG	<i>Hyla regilla</i>
PAINTED ENSATINA	<i>Ensatina eschscholtzii picta</i>
RED-LEGGED FROG	<i>Rana aurora</i>

Birds

COMMON	SCIENTIFIC
ALLEN'S HUMMINGBIRD	<i>Selasphorus sasin</i>
AMERICAN ROBIN	<i>Turdus migratorius</i>
ANNA'S HUMMINGBIRD	<i>Calypte anna</i>
BAND-TAILED PIGEON	<i>Columba fuscata</i>
BEWICK'S WREN	<i>Thryomanes bewickii</i>
BLACK HEADED GROSSBEAK	<i>Pheucticus melanocephalus</i>
BLACK-THROATED GRAY WARBLER	<i>Dendroica nigrescens</i>

BLUE GROUSE	<i>Dendragapus obscurus</i>
BROWN CREEPER	<i>Certhia americana</i>
BROWN-HEADED COWBIRD	<i>Molothrus ater</i>
CALIFORNIA QUAIL	<i>Callipepla californica</i>
CALIFORNIA TOWHEE	<i>Pipilo crissalis</i>
CHESTNUT-BACKED CHICKADEE	<i>Parus rufescens</i>
COMMON BUSHTIT	<i>Psaltriparus minimus</i>
COMMON FLICKER	<i>Colaptes cafer</i>
COMMON RAVEN	<i>Corvus corax</i>
DARK-EYED JUNCO	<i>Junco hyemalis</i>
DOWNTY WOODPECKER	<i>Picoides pubescens</i>
EUROPEAN STARLING	<i>Sturnus vulgaris</i>
FOX SPARROW	<i>Passerella iliaca</i>
GOLDEN EAGLE	<i>Aquila chrysaetos</i>
GOLDEN-CROWNED KINGLET	<i>Regulus satrapa</i>
HAIRY WOODPECKER	<i>Picoides villosus</i>
HERMIT THRUSH	<i>Cathartes guttatus</i>
HERMIT WARBLER	<i>Dendroica occidentalis</i>
HERMIT/BLACK-THROATED GRAY WARBLER	<i>Dendroica occidentalis/nigrescens</i>
HUMMINGBIRD SPECIES	<i>Trochilidae spp.</i>
HUTTON'S VIREO	<i>Vireo huttoni</i>
LAZULI BUNTING	<i>Passerina amoena</i>
MACGILLIVRAY'S WARBLER	<i>Oporornis tolmieii</i>
MOUNTAIN QUAIL	<i>Oreortyx pictus</i>
MOURNING DOVE	<i>Zenaidura macroura</i>
NORTHERN FLICKER	<i>Colaptes auratus</i>
OLIVE-SIDED FLYCATCHER	<i>Contopus borealis</i>
ORANGE-CROWNED WARBLER	<i>Vermivora celata</i>
PACIFIC-SLOPE FLYCATCHER	<i>Empidonax difficilis</i>
PILEATED WOODPECKER	<i>Dryocopus pileatus</i>
PURPLE FINCH	<i>Carpodacus purpureus</i>
RED CROSSBILL	<i>Loxia curvirostra</i>
RED-BREASTED NUTHATCH	<i>Sitta canadensis</i>
RED-BREASTED SAPSUCKER	<i>Sphyrapicus ruber</i>

RED-TAIL HAWK	<i>Buteo jamaicensis</i>
RUBY-CROWNED KINGLET	<i>Regulus calendulu</i>
RUFFED GROUSE	<i>Bonasa umbellus</i>
RUFOUS HUMMINGBIRD	<i>Selasphorus rufus</i>
SOLITARY VIREO	<i>Vireo solitarius</i>
SONG SPARROW	<i>Melospiza melodia</i>
SPOTTED TOWHEE	<i>Pipilo macululus</i>
STELLER'S JAY	<i>Cyanocitta stelleri</i>
SWAINSONS THRUSH	<i>Catharus ustulatus</i>
VARIED THRUSH	<i>Ixoreus naevius</i>
VAUX'S SWIFT	<i>Chaetura vauxi</i>
VIOLET-GREEN SWALLOW	<i>Tachycineta thalassina</i>
WARBLING VIREO	<i>Vireo gilvus</i>
WESTERN BLUEBIRD	<i>Sialia mexicana</i>
WESTERN MEADOWLARK	<i>Sturnella neglecta</i>
WESTERN TANAGER	<i>Piranga ludoviciana</i>
WESTERN WOOD-PEEWEE	<i>Contopus sordidulus</i>
WHITE-CROWNED SPARROW	<i>Zonotrichia leucophrys</i>
WILSON'S WARBLER	<i>Wilsonia pusilla</i>
WINTER WREN	<i>Troglodytes troglodytes</i>
WRENTIT	<i>Chamaea fasciata</i>
YELLOW WARBLER	<i>Dendroica petechia</i>

Mammals

COMMON	SCIENTIFIC
ALLEN'S CHIPMUNK	<i>Eutamias senex</i>
BLACK BEAR	<i>Ursus americanus</i>
BOBCAT	<i>Lynx rufus</i>
BRUSH RABBIT	<i>Sylvilagus bachmani</i>
CALIFORNIA RED-TREE VOLE	<i>Arborimus porno</i>
CALIFORNIA VOLE	<i>Microtus californicus</i>
CHICKAREE	<i>Tamiasciurus douglasii</i>
CHIPMUNK	<i>Eutamias ochrogenys</i>
COAST MOLE	<i>Scapanus orarius</i>
DEER MOUSE	<i>Peromyscus maniculatus</i>

DOMESTIC DOG	<i>Canis familiaris</i>
DUSKY-FOOTED WOODRAT	<i>Neotoma fuscipes</i>
FISHER	<i>Martes pennanti</i>
GRAY FOX	<i>Urocyon cinereoargenteus</i>
HUMAN	<i>Homo sapiens sapiens</i>
MOUNTAIN BEAVER	<i>Aplodontia rufa</i>
MOUNTAIN LION	<i>Felis concolor</i>
MULE DEER	<i>Odocoileus hemionus</i>
NORTHERN FLYING SQUIRREL	<i>Glaucomys sabrinus</i>
OPPOSUM	<i>Didelphis marsupialis</i>
OREGON VOLE	<i>Microtus oregoni</i>
PACIFIC JUMPING MOUSE	<i>Zapus trinotatus</i>
PACIFIC SHREW	<i>Sorex pacificus</i>
PORCUPINE	<i>Erethizon dorsatum</i>
RACCOON	<i>Procyon lotor</i>
REDBACK VOLE	<i>Clethrionomys californicus</i>
RINGTAIL	<i>Bassaris astutus</i>
SHORT-FAIL WEASEL	<i>Mustela erminea</i>
SHREW-MOLE	<i>Neotomodipus gibbis</i>
SPOTTED SKUNK	<i>Spilogale putorius</i>
STRIPED SKUNK	<i>Mephitis mephitis</i>
TROWBRIDGE SHREW	<i>Sorex trowbridgei</i>
VAGRANT SHREW	<i>Sorex vagrans</i>
WILD PIG	<i>Sus scrofa</i>

Reptiles

COMMON	SCIENTIFIC
ALLIGATOR LIZARD	<i>Gerrhonotus coeruleus</i>
CALIFORNIA RED-SIDED GARTER SNAKE	<i>Thamnophis sirtalis infernalis</i>
SHARP-TAILED SNAKE	<i>Contia tenuis</i>
W. TERRESTRIAL GARTER SNAKE	<i>Thamnophis elegans</i>
WESTERN FENCE LIZARD	<i>Sceloporus occidentalis</i>
WESTERN SKINK	<i>Eumeces skiltonianus</i>

SERAL STAGE
Montane Hardwood

Amphibians

COMMON	SCIENTIFIC
ARBOREAL SALAMANDER	<i>Aneides lugubris</i>
BLACK SALAMANDER	<i>Aneides flavipunctatus</i>
CALIFORNIA SLENDER SALAMANDER	<i>Batrachoseps attenuatus</i>
CLOUDED SALAMANDER	<i>Aneides ferreus</i>
OREGON ENSATINA	<i>Ensatina eschscholtzii</i>
PAINTED ENSATINA	<i>Ensatina eschscholtzii picta</i>

Birds

COMMON	SCIENTIFIC
ALLENS HUMMINGBIRD	<i>Selasphorus sasin</i>
AMERICAN GOLDFINCH	<i>Carduelis tristis</i>
AMERICAN ROBIN	<i>Turdus migratorius</i>
BAND-TAILED PIGEON	<i>Columba fasciata</i>
BLACK-THROATED GRAY WARBLER	<i>Dendroica nigrescens</i>
BLUE GROUSE	<i>Dendragapus obscurus</i>
BROWN CREEPER	<i>Certhia americana</i>
CALIFORNIA QUAIL	<i>Callipepla californica</i>
CHESTNUT-BACKED CHICKADEE	<i>Pinus rufescens</i>
COMMON BUSHTIT	<i>Psaltriparus minimus</i>
COMMON RAVEN	<i>Corvus corax</i>
DARK-EYED JUNCO	<i>Junco hyemalis</i>
GOLDEN-CROWNED KINGLET	<i>Regulus satrapa</i>
GOLDFINCH SPECIES	<i>Carduelis sp.</i>
HAIRY WOODPECKER	<i>Picoides villosus</i>
HERMIT THRUSH	<i>Cathartes guttatus</i>
HERMIT WARBLER	<i>Dendroica occidentalis</i>
HERMIT/BLACK-THROATED GRAY WARBLER	<i>Dendroica occidentalis/nigrescens</i>
HOUSE WREN	<i>Troglodytes aedon</i>
HUTTON'S VIREO	<i>Vireo huttoni</i>
NORTHERN FLICKER	<i>Colaptes auratus</i>

OLIVE-SIDED FLYCATCHER	<i>Contopus borealis</i>
ORANGE-CROWNED WARBLER	<i>Vermivora celata</i>
PACIFIC-SLOPE FLYCATCHER	<i>Empidonax difficilis</i>
PURPLE FINCH	<i>Carpodacus purpureus</i>
RED-BREASTED NUTHATCH	<i>Sitta canadensis</i>
RED-BREASTED SAPSUCKER	<i>Sphyrapicus ruber</i>
RUBY-CROWNED KINGLET	<i>Regulus calendula</i>
RUFOUS HUMMINGBIRD	<i>Selasphorus rufus</i>
SONG SPARROW	<i>Melospiza melodia</i>
SPOTTED TOWHEE	<i>Pipilo maculatus</i>
STELLER'S JAY	<i>Cyanocitta stelleri</i>
SWAINSON'S THRUSH	<i>Catharus ustulatus</i>
TURKEY VULTURE	<i>Cathartes aura</i>
VARIED THRUSH	<i>Ixoreus naevius</i>
VAUX'S SWIFT	<i>Chaetura vauxi</i>
WARBLING VIREO	<i>Vireo gilvus</i>
WESTERN MEADOWLARK	<i>Sturnella neglecta</i>
WHITE-CROWNED SPARROW	<i>Zonotrichia leucophrys</i>
WILSON'S WARBLER	<i>Wilsonia pusilla</i>
WINTER WREN	<i>Troglodytes troglodytes</i>
WRENTIT	<i>Chamaea fasciata</i>
YELLOW WARBLER	<i>Dendroica petechia</i>

Mammals

COMMON	SCIENTIFIC
BLACK BEAR	<i>Ursus americanus</i>
BLACKTAIL JACKRABBIT	<i>Lepus californicus</i>
BOTTA'S POCKET GOPHER	<i>Thomomys bottae</i>
BROAD-FOOTED MOLE	<i>Scapanus latimanus</i>
CALIFORNIA RED-TREE VOLE	<i>Arborimus longicaudus</i>
CALIFORNIA VOLE	<i>Microtus californicus</i>
CHICKAREE	<i>Tamiasciurus douglasii</i>
DEER MOUSE	<i>Peromyscus maniculatus</i>
DUSKY-FOOTED WOODRAT	<i>Neotoma fuscipes</i>
GRAY FOX	<i>Urocyon cinereoargenteus</i>

MULE DEER	<i>Odocoileus hemionus</i>
NORTHERN FLYING SQUIRREL	<i>Glaucomys sabrinus</i>
OPPOSUM	<i>Didelphis marsupialis</i>
PACIFIC JUMPING MOUSE	<i>Zapus trinotatus</i>
PACIFIC SHREW	<i>Sorex pacificus</i>
REDBACK VOLE	<i>Clethrionomys californicus</i>
SHREW-MOLE	<i>Neurotrichus gibbis</i>
TROWBRIDGE SHREW	<i>Sorex trowbridgei</i>
VAGRANT SHREW	<i>Sorex vagrans</i>
WESTERN HARVEST MOUSE	<i>Reithrodontomys megalotis</i>
WILD PIG	<i>Sus scrofa</i>

Reptiles

COMMON	SCIENTIFIC
ALLIGATOR LIZARD	<i>Gerrhonotus coeudeus</i>
NORTHWESTERN GARTER SNAKE	<i>Thamnophis ordinoides</i>
RUBBER BOA	<i>Charinus bottae</i>
W. TERRESTRIAL GARTER SNAKE	<i>Thamnophis elegans</i>
WESTERN FENCE LIZARD	<i>Sceloporus occidentalis</i>
WESTERN SKINK	<i>Eumeces skiltonianus</i>

SERAL STAGE

Perennial Grassland

Amphibians

COMMON	SCIENTIFIC
CALIFORNIA SLENDER SALAMANDER	<i>Batrachoseps attenuatus</i>

Birds

COMMON	SCIENTIFIC
ALLEN'S HUMMINGBIRD	<i>Selasphorus sasin</i>
AMERICAN CROW	<i>Corvus brachyrhynchos</i>
AMERICAN KESTREL	<i>Falco sparverius</i>
AMERICAN ROBIN	<i>Turdus migratorius</i>
BAND-TAILED PIGEON	<i>Columba fasciata</i>
BARN SWALLOW	<i>Hirundo rustica</i>
BLACK-THROATED GRAY WARBLER	<i>Dendroica nigrescens</i>

BREWERS BLACKBIRD	<i>Euphagus cyanocephalus</i>
CALIFORNIA QUAIL	<i>Callipepla californica</i>
CHESTNUT-BACKED CHICKADEE	<i>Parus rufescens</i>
CHIPPING SPARROW	<i>Spizella pusilla</i>
COMMON BUSHTIT	<i>Psaltriparus minimus</i>
COMMON RAVEN	<i>Corvus corax</i>
DARK-EYED JUNCO	<i>Junco hyemalis</i>
GOLDEN-CROWNED SPARROW	<i>Zonotrichia leucophrys</i>
GOLDFINCH SPECIES	<i>Carduelis sp.</i>
HAIRY WOODPECKER	<i>Picoides villosus</i>
HERMIT THRUSH	<i>Cathartes guttatus</i>
HERMIT/BLACK-THROATED GRAY WARBLER	<i>Dendroica occidentalis/nigrescens</i>
HORNED LARK	<i>Eremophila alpestris</i>
HUMMINGBIRD SPECIES	<i>Trochilidae spp.</i>
HUTTON'S VIREO	<i>Vireo huttoni</i>
LARK SPARROW	<i>Chondestes grammacus</i>
LAZULI BUNTING	<i>Passerina amoena</i>
LESSER GOLDFINCH	<i>Carduelis psaltria</i>
NORTHERN FLICKER	<i>Colaptes auratus</i>
OLIVE-SIDED FLYCATCHER	<i>Contopus borealis</i>
ORANGE-CROWNED WARBLER	<i>Vermivora celata</i>
PACIFIC-SLOPE FLYCATCHER	<i>Empidonax difficilis</i>
PURPLE FINCH	<i>Carpodacus purpureus</i>
RED-BREASTED NUTHATCH	<i>Sitta canadensis</i>
RED-TAIL HAWK	<i>Buteo jamaicensis</i>
SAVANNAH SPARROW	<i>Passerculus sandwichensis</i>
SHARP-SHINNED HAWK	<i>Accipiter striatus</i>
SOLITARY VIREO	<i>Vireo solitarius</i>
SONG SPARROW	<i>Melospiza melodia</i>
SPOT-L-ED TOWHEE	<i>Pipilo maculatus</i>
STELLER'S JAY	<i>Cyanocitta stelleri</i>
SWAINSONS THRUSH	<i>Cathartes ustulatus</i>
TURKEY VULTURE	<i>Cathartes aura</i>
VAUX'S SWIFT	<i>Chaetura vauxi</i>

WARBLING VIREO	<i>Vireo gilvus</i>
WESTERN BLUEBIRD	<i>Sialia mexicana</i>
WESTERN MEADOWLARK	<i>Sturnella neglecta</i>
WESTERN TANAGER	<i>Piranga ludoviciana</i>
WHITE-CROWNED SPARROW	<i>Zonotrichia leucophrys</i>
WILSON'S WARBLER	<i>Wilsonia pusilla</i>
WINTER WREN	<i>Troglodytes troglodytes</i>
WRENTIT	<i>Chamaea fasciata</i>

Mammals

COMMON	SCIENTIFIC
BADGER	<i>Taxidea taxus</i>
BOTTA'S POCKET GOPHER	<i>Thomomys bottae</i>
CALIFORNIA VOLE	<i>Microtus californicus</i>
DEER MOUSE	<i>Peromyscus maniculatus</i>
GRAY FOX	<i>Urocyon cinereoargenteus</i>
MULE DEER	<i>Odocoileus hemionus</i>
STRIPED SKUNK	<i>Mephitis mephitis</i>
TROWBRIDGE SHREW	<i>Sorex trowbridgei</i>
VAGRANT SHREW	<i>Sorex vagrans</i>
WESTERN HARVEST MOUSE	<i>Reithrodontomys megalotis</i>

Reptiles

COMMON	SCIENTIFIC
ALLIGATOR LIZARD	<i>Gerrhonotus coeruleus</i>
W. TERRESTRIAL GARTER SNAKE	<i>Thamnophis elegans</i>
WESTERN FENCE LIZARD	<i>Sceloporus occidentalis</i>
WESTERN SKINK	<i>Eumeces skiltonianus</i>

SERAL STAGE

Young Forests

Amphibians

COMMON	SCIENTIFIC
ARBOREAL SALAMANDER	<i>Aneides lugubris</i>
BLACK SALAMANDER	<i>Aneides flavipunctatus</i>
CALIFORNIA SLENDER SALAMANDER	<i>Batrachoseps attenuatus</i>

CLOUDED SALAMANDER	<i>Aneides ferreus</i>
NORTHWESTERN SALAMANDER	<i>Ambystomu grucile</i>
OREGON ENSATINA	<i>Ensatina eschscholtzii</i>
PACIFIC GIANT SALAMANDER	<i>Diacumptodon ensutus</i>
PACIFIC TREE FROG	<i>Hyla regilla</i>
PAINTED ENSATINA	<i>Ensatina eschscholtzii picta</i>
ROUGH-SKINNED NEWT	<i>Taricha granulosa</i>

Birds

COMMON	SCIENTIFIC
ACORN WOODPECKER	<i>Melanerpes formicivorus</i>
ALLEN'S HUMMINGBIRD	<i>Selasphorus sasin</i>
AMERICAN GOLDFINCH	<i>Carduelis tristis</i>
AMERICAN KESTREL	<i>Falco sparverius</i>
AMERICAN ROBIN	<i>Turdus migratorius</i>
ANNA'S HUMMINGBIRD	<i>Calypte anna</i>
BAND-TAILED PIGEON	<i>Columbu fasciata</i>
BEWICK'S WREN	<i>Thryomanes bewickii</i>
BLACK HEADED GROSSBEAK	

Plant Species By Habitat Type

SERAL STAGE

Forest Openings

Plants

<u>COMMON</u>	<u>SCIENTIFIC</u>
	<i>Gnaphalium japonicum</i>
	<i>Gnuphalium luteo-alba</i>
	<i>Lotus purshianus</i>
	<i>Parentucelliu latifolia</i>
	<i>Gnaphulium canescens</i>
BAREGROUND COVER	<i>Bareground</i>
BIG-LEAF MAPLE	<i>Acer macrophyllum</i>
BLACK MUSTARD	<i>Brassica nigra</i>
BLACK NIGHTSHADE	<i>Solanum nigrum</i>
BLACKBERRY	<i>Rubus ursinus</i>
BLUE-BLOSSOM	<i>Ceanothus thyrsiflorus</i>
BOLANDERI'S PHACELIA	<i>Phacelia bolanderi</i>
BRISTLY OX-TONGUE	<i>Picris echioptera</i>
BULL THISTLE	<i>Cirsium vulgare</i>
BUTTERWEED	<i>Senecio sylvaticus</i>
CALIFORNIA BEDSTRAW	<i>Gulium californicum</i>
CALIFORNIA CUDWEED	<i>Gnaphalium californicum</i>
CALIFORNIA FIGWORT (BEE PLANT)	<i>Scrophularia californica</i>
CALIFORNIA GOLDENROD	<i>Solidago californica</i>
CALIFORNIA HAZELNUT	<i>Corylus cornuta</i> ssp. <i>californica</i>
CALIFORNIA BAY	<i>Umbellularia californica</i>
CANADA THISTLE	<i>Cirsium arvense</i>
CENTAURY	<i>Centaurium muehlenbergii</i>
COAST HEDGE NETTLE	<i>Stachys ajugoides</i> var. <i>rigida</i>
COMMON HORSETAIL	<i>Equisetum arvense</i>
COMMON SOW THISTLE	<i>Sonchus oleraceus</i>

COMMON VELVET GRASS	<i>Holcus lanatus</i>
COMMON YARROW	<i>Achillea millefolium</i>
COYOTE BRUSH	<i>Baccharis pilularis</i>
CURLY DOCK	<i>Rumex crispus</i>
DANDELION	<i>Taraxacum officianale</i>
DOUGLAS FIR	<i>Pseudotsuga menziesii</i> var.
DOUGLAS IRIS	<i>Iris douglasiana</i>
EVERGREENHUCKLEBERRY	<i>Vaccinium ovatum</i>
FLAX	<i>Linum bienne</i>
FOXGLOVE	<i>Digitalis purpurea</i>
GIANT CHAIN FERN	<i>Woodwardia fimbriata</i>
HAIRY CATS EAR	<i>Hypochaeris radicata</i>
HAIRY HONEYSUCKLE	<i>Lonicera hispidula</i> var. <i>vaci</i>
HEDGE NETTLE SPECIES	<i>Stachys</i> spp.
HOOKERS FAIRY BELLS	<i>Disporum hookeri</i>
LITTER COVER	<i>Litter</i>
NOOTKA ROSE	<i>Rosa nutkana</i> <i>nutkana</i>
NORTH WILLOW HERB	<i>Epilobium ciliatum</i> ssp. <i>cili</i>
OCEAN SPRAY	<i>Holodiscus discolor</i>
OXE-EYED DAISY	<i>Leucanthemum vulgare</i>
PACIFIC MADRONE	<i>Arbutus menziesii</i>
PACIFIC STARFLOWER	<i>Trientalis latifolia</i>
PAMPAS GRASS	<i>Cortaderia selloana</i>
PEARLY EVERLASTING	<i>Anaphalis margaritacea</i>
POISON HEMLOCK	<i>Conium maculatum</i>
POISON OAK	<i>Toxicodendron diversilobu</i>
RATTLESNAKE WEED	<i>Torilis arvensis</i>
RED ALDER	<i>Alnus rubra</i>
RED-FLOWERING CURRENT	<i>Ribes sanguineum</i> var. <i>glut</i> i
REDWOOD	<i>Sequoia sempervirens</i>
REDWOOD SORREL	<i>Oxalis oregana</i>
REDWOOD STUMP	<i>Sequoia sempervirens</i> <i>stum</i>
ROCK COVER	<i>Rock</i>
RUSH	<i>Juncus</i> species

SALAL	<i>Gaultheria shallon</i>
SCARLET PIMPERNEL	<i>Anagallis arvensis</i>
SEDGE SPECIES	<i>Carex sp.</i>
SELF-HEAL	<i>Prunella vulgaris</i>
SITKA WILLOW	<i>Salix sitchensis</i>
SLASH	<i>Slash pile</i>
SNEEZEWEEED	<i>Helenium puberulum</i>
STICKY MONKEYFLOWER	<i>Mimulus aurantiacus</i>
SWEET-SCENTED BEDSTRAW	<i>Galium triflorum</i>
SWORD FERN	<i>Polystichum munitum</i>
TAN OAK	<i>Lithocarpus densiflorus</i> var.
THIMBLEBERRY	<i>Rubus parviflorus</i>
THISTLE SPECIES	<i>Cirsium sp.</i>
TOOTHED COAST FIREWEED	<i>Erichites minima</i>
TRILLIUM	<i>Trillium spp.</i>
UNKNOWN BEDSTRAW	<i>Gallium spp.</i>
UNKNOWN GRASS	<i>Poaceae</i>
VANILLA GRASS	<i>Hierochloe occidentalis</i>
VARI-LEAF COLLOMIA	<i>Collomia heterophylla</i>
VETCH SPP.	<i>Vicia spp.</i>
WAX MYRTLE	<i>Myrica californica</i>
WESTERN BRACKEN FERN	<i>Pteridium aquilinum</i> var. <i>p</i>
WESTERN WAKE ROBIN	<i>Trillium ovatum</i>
WHITE HAWKWEED	<i>Hieracium albiflorum</i>
WHITE INSIDE-OUT FLOWER	<i>Vancouveria hexandra</i>
WHITE SWEETCLOVER	<i>Melilotus alba</i>
WHITE-STEMMED RASBERRY	<i>Rubus leucodermis</i>
WILLOW SPECIES	<i>Salix spp.</i>
WOOD COVER	<i>Woody debris</i>
WOOD ROSE	<i>Rosa gymnocarpa</i>
WOODLAND MADIA	<i>Madia madiooides</i>
YERBA BUENA	<i>Satureja douglasii</i>
YERBA DE SELVA	<i>Whipplea modesta</i>

SERAL STAGE

Late Successional

Plants

C O M M O N	SCIENTIFIC
	<i>Lotus purshianus</i>
BANEBERRY	<i>Actaea rubra arguta</i>
BAREGROUND COVER	<i>Bareground</i>
BIG-LEAF MAPLE	<i>Acer macrophyllum</i>
BLACKBERRY	<i>Rubus ursinus</i>
BLUE-BLOSSOM	<i>Ceanothus thyrsiflorus</i>
BULL THISTLE	<i>Cirsium vulgare</i>
CALIFORNIA BEDSTRAW	<i>Galium californicum</i>
CALIFORNIA BUTTERCUP	<i>Ranunculus californicus</i>
CALIFORNIA FIGWORT (BEE PLANT)	<i>Scrophularia californica</i>
CALIFORNIA HAZELNUT	<i>Corylus cornuta ssp. californica</i>
CALIFORNIA RHODODENDRON	<i>Rhododendron macrophyllum</i>
CALIFORNIA BAY	<i>Umbellularia californica</i>
CALYPSO ORCHID	<i>Calypso bulbosa</i>
CANDY FLOWER	<i>Claytonia sibirica</i>
CANYON GOOSEBERRY	<i>Ribes menziesii</i>
CASCARA	<i>Rhamnus purshiana</i>
CLASPING-LEAVED TWISTED STALK	<i>Streptopus amplexifolius</i>
COAST HEDGE NETTLE	<i>Stachys ajugoides var. rigid</i>
COLUMBIA WINDFLOWER	<i>Anemone deltoidea</i>
COMMON PLANTAIN	<i>Plantago lanceolata</i>
COMMON SOW THISTLE	<i>Sonchus oleraceus</i>
COMMON YARROW	<i>Achillea millefolium</i>
COYOTE BRUSH	<i>Baccharis pilularis</i>
CRIMSON COLUMBINE	<i>Aquilegia formosa</i>
DANDELION	<i>Taraxacum officinale</i>
DEER FERN	<i>Blechnum spicant</i>
DOUGLAS FIR	<i>Pseudotsuga menziesii var.</i>
DOUGLAS IRIS	<i>Iris douglasiana</i>

DWARF OREGON GRAPE	<i>Berberis nervosa</i>
ENGLISH IVY	<i>Hedera helix</i>
EVERGREEN HUCKLEBERRY	<i>Vaccinium ovatum</i>
EVERGREEN-VIOLET	<i>Viola sempervirens</i>
FALSE SOLOMON'S SEAL	<i>Smilacina racemosa</i>
FETID ADDER'S TONGUE, SLINKPOD	<i>Scoliopus bigelovii</i>
FIREWEED	<i>Epolobium spp.</i>
FIVE-FINGER FERN	<i>Adiantum aleuticum</i>
FOXGLOVE	<i>Digitalis purpurea</i>
FRINGE CUPS	<i>Tellima grandiflora</i>
GOLDENBACK FERN	<i>Pentagramma triangularis</i>
GRAND FIR	<i>Abies grandis</i>
HAIRY CATS EAR	<i>Hypochaeris radicata</i>
HAIRY HONEYSUCKLE	<i>Lonicera hispidula var. vaci</i>
HEDGE NETTLE SPECIES	<i>Stachys spp.</i>
HOOKERS FAIRY BELLS	<i>Disporum hookeri</i>
HORSETAIL	<i>Equisetum spp.</i>
INTERIOR LIVE OAK	<i>Quercus wislizenii</i> var. <i>frute</i>
LADY FERN	<i>Athyrium filix-femina</i>
LITTER COVER	<i>Litter</i>
MILK MAIDS	<i>Cardamine californica</i>
MINERS LETTUCE	<i>Claytonia perfoliata</i>
MONKEY FLOWER SPECIES	<i>Mimulus spp.</i>
NORTH WILLOW HERB	<i>Epiobium ciliatum</i> ssp. <i>cili</i>
OCEAN SPRAY	<i>Holodiscus discolor</i>
OREGON GRAPE SPECIES	<i>Berberis spp.</i>
OTHER COVER	<i>Other</i>
OXE-EYED DAISY	<i>Leucanthemum vulgare</i>
PACIFIC MADRONE	<i>Arbutus menziesii</i>
PACIFIC OENANTHE	<i>Oenanthe sarmentosa</i>
PACIFIC SNAKEROOT	<i>Sanicula crassicaulis</i>
PACIFIC STARFLOWER	<i>Trientalis latifolia</i>
PAMPAS GRASS	<i>Cortaderia selloana</i>
PEARLY EVERLASTING	<i>Anaphalis margaritacea</i>

PHACELIA SPECIES	<i>Phacelia</i> sp.
PIG-A-BACK PLANT	<i>Tolmiea membranacea</i>
POISON OAK	<i>Toxicodendron diversilobum</i>
PRICKLY SOW THISTLE	<i>Sonchus asper</i>
PURPLE CUDWEED	<i>Gnopholium purpurium</i>
RATTLESNAKE PLANTAIN	<i>Goodyera oblongifolia</i>
RATTLESNAKE WEED	<i>Torilis arvensis</i>
RED ALDER	<i>Alnus rubra</i>
RED CLINTONIA	<i>Clintonia andrewsiana</i>
RED ELDERBERRY	<i>Sambucus racemosa</i> var. <i>racemosa</i>
RED FIREWEED	<i>Epilobium angustifolium</i>
RED HENBIT	<i>Lamium purpureum</i>
RED HUCKLEBERRY	<i>Vaccinium parvifolium</i>
RED-FLOWERING Currant	<i>Ribes sanguineum</i> var. <i>glutinosum</i>
REDWOOD	<i>Sequoia sempervirens</i>
REDWOOD NY	<i>Vancouveria planipetala</i>
REDWOOD SORREL	<i>Oxalis oregana</i>
REDWOOD STUMP	<i>Sequoia sempervirens</i> stum
ROCK COVER	<i>Rock</i>
RUSH	<i>Juncus</i> species
SALAL	<i>Gaultheria shallon</i>
SALMONBERRY	<i>Rubus spectabilis</i>
SELF-HEAL	<i>Prunella vulgaris</i>
SHEEP SORREL	<i>Rumex acetosella</i>
SITKA SPRUCE	<i>Picea sitchensis</i>
SLASH	<i>Slosh pile</i>
SLIM SOLOMON'S SEAL	<i>Smilacina stellata</i>
STINGING NETTLE	<i>Urtica dioica</i> ssp. <i>holosericea</i>
STINK Currant	<i>Ribes bracteosum</i>
STREAM VIOLET	<i>Viola glabella</i>
SUGARSCOOPS	<i>Tiarella trifoliata</i> var. <i>uniflora</i>
SWEET CICELY	<i>Osmorhiza chilensis</i>
SWEET-SCENTED BEDSTRAW	<i>Galium triflorum</i>
SWORD FERN	<i>Polystichum munitum</i>

TALL OREGON GRAPE	<i>Berberis aquifolium</i>
TAN OAK	<i>Lithocarpus densiflorus</i> var.
THIMBLEBERRY	<i>Rubus parviflorus</i>
TOOTHED COAST FIREWEED	<i>Erichites minima</i>
TRAIL PLANT	<i>Adenocaulon bicolor</i>
TRAILING BLACK Currant	<i>Ribes laxiflorum</i>
TREE STUMP	None
TRILLIUM	<i>Trillium spp.</i>
UNKNOWN BEDSTRAW	<i>Gallium spp.</i>
UNKNOWN GRASS	<i>Poaceae</i>
UNKNOWN MOSS	<i>Moss</i>
VANILLA GRASS	<i>Hierochloe occidentalis</i>
VANILLA LEAF	<i>Achlys triphylla</i>
VETCH SPP.	<i>Vicia spp.</i>
WASHINGTON LILY	<i>Lilium washingtonianum</i> w
WAX MYRTLE	<i>Myrica californica</i>
WESTERN BITTERCRESS	<i>Caniamine oligosperma</i>
WESTERN BRACKEN FERN	<i>Pteridium aquilinum</i> var. <i>p</i>
WESTERN COLTSFOOT	<i>Petasites frigidus</i> var. <i>palm</i>
WESTERN WAKE ROBIN	<i>Trillium ovatum</i>
WHITE HAWKWEED	<i>Hieracium albiflorum</i>
WHITE INSIDE-OUT FLOWER	<i>Vancouveria hexandra</i>
WHITE-STEMMED RASBERRY	<i>Rubus leucodermis</i>
WHITE-VEINED WINTERGREEN	<i>Pyrola picta</i>
WILD GINGER	<i>Asarum caudatum</i>
WILLOW SPECIES	<i>Salix spp.</i>
WOOD COVER	<i>Woody debris</i>
WOOD FERN	<i>Dryopteris expansa</i>
WOOD PEA	<i>Lathyrus vestitus</i>
WOOD ROSE	<i>Rosa gymnocarpa</i>
WOOD STRAWBERRY	<i>Fragaria vesca</i>
WOODLAND MADIA	<i>Madia madiooides</i>
YERBA BUENA	<i>Satureja douglasii</i>
YERBA DE SELVA	<i>Whipplea modesta</i>

SERAL STAGE

Mid Successional

Plants

COMMON	SCIENTIFIC
	<i>Gnaphalium ramosissimum</i>
ANGELICA SPP.	<i>Angelica spp.</i>
BAREGROUND COVER	<i>Boreground</i>
BLACKBERRY	<i>Rubus ursinus</i>
BLUE-BLOSSOM	<i>Ceanothus thyrsiflorus</i>
BOLANDERI'S PHACELIA	<i>Phacelia bolanderi</i>
BULL THISTLE	<i>Cirsium vulgare</i>
CALIFORNIA BEDSTRAW	<i>Golium californicum</i>
CALIFORNIA BUTTERCUP	<i>Ranunculus californicus</i>
CALIFORNIA MAIDEN-HAIR	<i>Adiantum jordanii</i>
CALIFORNIA POLYPODY	<i>Polypodium californicum</i>
CALIFORNIA RHODODENDRON	<i>Rhododendron macrophyllum</i>
CALIFORNIA BAY	<i>Umbellularia californica</i>
CANDY FLOWER	<i>Claytonia sibirica</i>
CANYON GOOSEBERRY	<i>Ribes memeceshii</i>
CASCARA	<i>Rhamnus purshiana</i>
CEANOTHUS SPP.	<i>Ceanothus spp.</i>
CLASPING-LEAVED TWISTED STALK	<i>Streptopus amplexifolius</i>
COAST HEDGE NETTLE	<i>Stachys ojaiensis var. rigid</i>
COAST TARWEED	<i>Modio sativo</i>
COMMON LARGE MONKEY FLOWER	<i>Mimulus guttatus</i>
COMMON PLANTAIN	<i>Plantago lanceolata</i>
COMMON SOW THISTLE	<i>Sonchus oleraceus</i>
COYOTE BRUSH	<i>Baccharis pilularis</i>
CREEPING SNOWBERRY	<i>Symporicarpus mollis</i>
CRIMSON COLUMBINE	<i>Aquilegia formosa</i>
DANDELION	<i>Taraxacum officinale</i>
DEER FERN	<i>Blechnum spicant</i>
DOUGLAS FIR	<i>Pseudotsuga menziesii</i> var.

DOUGLAS IRIS	<i>Iris douglasiana</i>
DWARF OREGON GRAPE	<i>Berberis nervosa</i>
ENGLISH HOLLY	<i>Rex aquifolium</i>
EVERGREEN HUCKLEBERRY	<i>Vaccinium ovotum</i>
EVERGREEN-VIOLET	<i>Viola sempervirens</i>
FALSE SOLOMON'S SEAL	<i>Smilacina racemosa</i>
FALSE SOLOMON'S SEAL SPECIES	<i>Smilacina spp.</i>
FETID ADDER'S TONGUE, SLINKPOD	<i>Scoliopus bigelovii</i>
FIVE-FINGER FERN	<i>Adiantum aleuticum</i>
GIANT CHAIN FERN	<i>Woodwardia fimbriata</i>
GOLDENBACK FERN	<i>Pentagramma triangularis</i>
GRAND FIR	<i>Abies grandis</i>
HAIRY CATS EAR	<i>Hypochoeris rodicato</i>
HAIRY HONEYSUCKLE	<i>Lonicera hispidula var. vaci</i>
HEDGE NETTLE SPECIES	<i>Stachys spp.</i>
HORSETAIL	<i>Equisetum spp.</i>
INTERIOR LIVE OAK	<i>Quercus wislizenii var. frute</i>
LADY FERN	<i>Athyrium filix-femina</i>
LEOPARD LILY	<i>Lilium pardalimum</i>
LITTER COVER	<i>Litter</i>
LUPINE	<i>Lupinus spp.</i>
MILK MAIDS	<i>Cardamine californica</i>
MINERS LETTUCE	<i>Claytonia perfoliata</i>
OCEAN SPRAY	<i>Holodiscus discolor</i>
OREGON GRAPE SPECIES	<i>Berberis spp.</i>
OTHER COVER	<i>Other</i>
PACIFIC MADRONE	<i>Arbutus menziesii</i>
PACIFIC STARFLOWER	<i>Trientalis latifolia</i>
PACIFIC WATER LEAF	<i>Hydrophyllum tenuipes</i>
PAMPAS GRASS	<i>Cortaderia selloana</i>
PEARLY EVERLASTING	<i>Anaphalis margaritacea</i>
PENNY ROYAL	<i>Mentha spp.</i>
POISON OAK	<i>Toxicodendron diversilobu</i>
PURPLE CUDWEED	<i>Gnaphalium purpurium</i>

RANUNCULUS (EUROPE)	<i>Ranunculus repens</i>
RED ALDER	<i>Alnus rubra</i>
RED CLINTONIA	<i>Clintonia andrewsiana</i>
RED ELDERBERRY	<i>Sambucus racemosa var. racemosa</i>
RED FIREWEED	<i>Epilobium angustifolium</i>
RED HUCKLEBERRY	<i>Vaccinium parvifolium</i>
RED-FLOWERING Currant	<i>Ribes sanguineum var. glutinosa</i>
REDWOOD	<i>Sequoia sempervirens</i>
REDWOOD LILY	<i>Lilium rubescens</i>
REDWOOD SORREL	<i>Oxalis oregano</i>
REDWOOD STUMP	<i>Sequoia sempervirens stump</i>
ROCK COVER	<i>Rock</i>
RUSH	<i>Juncus species</i>
SALAL	<i>Gaultheria shallon</i>
SALMONBERRY	<i>Rubus spectabilis</i>
SHEEP SORREL	<i>Rumex acetosella</i>
SLASH	<i>Slosh pile</i>
SLIM SOLOMON'S SEAL	<i>Smilacina stellata</i>
STIPULATE LOTUS	<i>Lotus stipularis</i>
STREAM VIOLET	<i>Viola glabella</i>
SUGARSCOOPS	<i>Tiarella trifoliata var. uniflora</i>
SWEET CICELY	<i>Osmorhiza chilensis</i>
SWEET-SCENTED BEDSTRAW	<i>Galium triflorum</i>
SWORD FERN	<i>Polystichum munitum</i>
TALL OREGON GRAPE	<i>Berberis aquifolium</i>
TAN OAK	<i>Lithocarpus densiflorus var.</i>
THIMBLEBERRY	<i>Rubus parviflorus</i>
TOOTHED COAST FIREWEED	<i>Erichtites minima</i>
TRAIL PLANT	<i>Adenocaulon bicolor</i>
TREE STUMP	<i>None</i>
TRILLIUM	<i>Trillium spp.</i>
UNKNOWN BEDSTRAW	<i>Gallium spp.</i>
UNKNOWN CURRANT	<i>Ribes spp.</i>
UNKNOWN GRASS	<i>Pooaceae</i>

UNKNOWN MOSS	<i>Moss</i>
UNKOWN COMPOSITE	<i>Asteraceae</i>
VANILLA GRASS	<i>Hierochloe occidentalis</i>
VANILLA LEAF	<i>Achlys triphylla</i>
VETCH SPP.	<i>Vicia spp.</i>
WATER	<i>H2O</i>
WESTERN BITTERCRESS	<i>Cardamine oligosperma</i>
WESTERN BRACKEN FERN	<i>Pteridium aquilinum</i> var. <i>p</i>
WESTERN COLTSFOOT	<i>Petasites frigidus</i> var. <i>palm</i>
WESTERN HEMLOCK	<i>Tsuga heterophylla</i>
WESTERN RED CEDAR	<i>Thuja plicata</i>
WESTERN WAKE ROBIN	<i>Trillium ovatum</i>
WHITE HAWKWEED	<i>Hieracium albiflorum</i>
WHITE INSIDE-OUT FLOWER	<i>Vancouveria hexandra</i>
WHITE-STEMMED RASBERRY	<i>Rubus leucodermis</i>
WILD GINGER	<i>Asarum caudatum</i>
WILLOW SPECIES	<i>Salix spp.</i>
WOOD COVER	<i>Woody debris</i>
WOOD FERN	<i>Dryopteris expansa</i>
WOOD PEA	<i>Lathyrus vestitus</i>
WOOD ROSE	<i>Rosa gymnocarpa</i>
WOOD STRAWBERRY	<i>Fragaria vesca</i>
WOODLAND MADIA	<i>Madia madiooides</i>
YAMPAH	<i>Perideridia kelloggii</i>
YERBA BUENA	<i>Satureja douglasii</i>
YERBA DE SELVA	<i>Whipplea modesta</i>

SERAL STAGE

Montane Hardwood

Plants

COMMON	SCIENTIFIC
	<i>Gnaphalium luteo-alba</i>
	<i>Gnaphalium ramosissimum</i>
	<i>Ranunculus uncinatus</i>

BAREGROUND COVER	<i>Bareground</i>
BITTER DOGBANE	<i>Apocynum androsaemifoli</i>
BLACKBERRY	<i>Rubus ursinus</i>
BLUE-BLOSSOM	<i>Ceanothus thyrsiflorus</i>
BUCKWHEAT	<i>Eriogonum nudum</i>
BULL THISTLE	<i>Cirsium vulgare</i>
BUTTERCUP SPECIES	<i>Ranunculus spp.</i>
CALIFORNIA BEDSTRAW	<i>Golium californicum</i>
CALIFORNIA BUTTERCUP	<i>Ranunculus californicus</i>
CALIFORNIA POPPY	<i>Eschscholzia californica</i>
CALIFORNIA ROSE	<i>Rosa californica</i>
CALIFORNIA BAY	<i>Umbellularia californica</i>
CALYPSO ORCHID	<i>Calypso bulbosa</i>
CANADA THISTLE	<i>Cirsium arvense</i>
CANDY FLOWER	<i>Claytonia sibirica</i>
CANYON GOOSEBERRY	<i>Ribes menziesii</i>
CANYON LIVE OAK	<i>Quercus chrysolepis</i>
COAST HEDGE NETTLE	<i>Stachys ojaiensis var. rigid</i>
COMMON SOW THISTLE	<i>Sonchus oleraceus</i>
COMMON VELVET GRASS	<i>Holcus lanatus</i>
COMMON YARROW	<i>Achillea millefolium</i>
DANDELION	<i>Taraxacum officianale</i>
DOUGLAS FIR	<i>Pseudotsuga menziesii var.</i>
DOUGLAS IRIS	<i>Iris douglasiana</i>
DWARF OREGON GRAPE	<i>Berberis nervosa</i>
EVERGREEN HUCKLEBERRY	<i>Vaccinium ovatum</i>
EVERGREEN-VIOLET	<i>Viola sempervirens</i>
FALSE SOLOMON'S SEAL	<i>Smilacina racemosa</i>
FETID ADDERS TONGUE, SLINKPOD	<i>Scoliopus bigelovii</i>
FLAX	<i>Linum bienne</i>
FLEABANE DAISY	<i>Erigeron foliosus</i>
FOXGLOVE	<i>Digitalis purpurea</i>
GOLDENBACK FERN	<i>Pentagramma triangularis</i>
GOOSE GRASS	<i>Golium aparine</i>

HAIRY CATS EAR	<i>Hypochoeris radicata</i>
HAIRY HONEYSUCKLE	<i>Lonicera hispidula</i> var. <i>vaci</i>
HARVEST BROIAEA	<i>Brodioea elegans elegans</i>
HORSETAIL	<i>Equisetum spp.</i>
ITHURIEL'S SPEAR	<i>Triteleia laxa</i>
LADY FERN	<i>Athyrium filix-femina</i>
LITTER COVER	<i>Litter</i>
LOTUS SPECIES	<i>Lotus sp.</i>
LUPINE	<i>Lupinus spp.</i>
MICROSERIS SPECIES	
MILK MAIDS	<i>Coniamine colifomico</i>
MINIATURE LUPINE	<i>Lupinus bicolor</i>
MONKEY FLOWER SPECIES	<i>Mimulus spp.</i>
MONKEYFLOWER	<i>Mimulus dentatus</i>
OCEAN SPRAY	<i>Holodiscus discolor</i>
OTHER COVER	<i>Other</i>
OXE-EYED DAISY	<i>Leucanthemum vulgare</i>
PACIFIC MADRONE	<i>Arbutus menziesii</i>
PACIFIC STARFLOWER	<i>Trientalis latifolia</i>
PACIFIC WATER LEAF	<i>Hydrophyllum tenuipes</i>
PEARLY EVERLASTING	<i>Anaphalis margaritacea</i>
PURPLE CUDWEED	<i>Gnaphalium purpurium</i>
PUSSY EARS	<i>Colochortus tolmiei</i>
RED FIREWEED	<i>Epilobium angustifolium</i>
RED HUCKLEBERRY	<i>Vaccinium parvifolium</i>
REDWOOD	<i>Sequoia sempervirens</i>
REDWOOD SORREL	<i>Oxalis oregana</i>
ROCK COVER	<i>Rock</i>
RUSH	<i>Juncus species</i>
SALAL	<i>Gaultheria shallon</i>
SALMONBERRY	<i>Rubus spectabilis</i>
SHEEP SORREL	<i>Rumex acetosella</i>
SNEEZEWEEED	<i>Helenium puberulum</i>
STREAM VIOLET	<i>Viola glabella</i>

SWEET CICELY	<i>Osmorhiza chilensis</i>
SWORD FERN	<i>Polystichum munitum</i>
TALL OREGON GRAPE	<i>Berberis oquifolium</i>
TAN OAK	<i>Lithocarpus densiflorus</i> var.
THIMBLEBERRY	<i>Rubus parviflorus</i>
TOOTHED COAST FIRE WEED	<i>Erichites minima</i>
TRAIL PLANT	<i>Adenocaulon bicolor</i>
TRIFOLIUM SPECIES	<i>Trifolium</i> sp.
UNKNOWN BEDSTRAW	<i>Gallium</i> spp.
UNKNOWN GRASS	<i>Poaceae</i>
UNKNOWN MOSS	<i>Moss</i>
VANILLA GRASS	<i>Hierochloe occidentalis</i>
VANILLA LEAF	<i>Achlys triphylla</i>
VARI-LEAF COLLOMIA	<i>Collomia heterophylla</i>
VETCH SPP.	<i>Vicia</i> spp.
WESTERN BRACKEN FERN	<i>Pteridium aquilinum</i> var. <i>p</i>
WESTERN COLTSFOOT	<i>Petasites frigidus</i> var. <i>polm</i>
WHITE HAWKWEED	<i>Hieracium albiflorum</i>
WHITE INSIDE-OUT FLOWER	<i>Vancouveria hexandra</i>
WHITE-STEMMED RASBERRY	<i>Rubus leucodermis</i>
WHOOLY SUNFLOWER	<i>Eriophyllum lanatum</i>
WOOD COVER	Woody debris
WOOD FERN	<i>Dryopteris expansa</i>
WOOD PEA	<i>Lathyrus vestitus</i>
WOOD ROSE	<i>Rosa gymnocarpa</i>
WOOD STRAWBERRY	<i>Fragaria vesca</i>
WOODLAND MADIA	<i>Madia madioides</i>
YAMPAH	<i>Perideridin kelloggii</i>
YERBA BUENA	<i>Satureja douglasii</i>
YERBA DE SELVA	<i>Whipplea modesta</i>

SERAL-STAGE

Perennial Grassland

Plants

COMMON	SCIENTIFIC
	<i>Gnaphalium luteo-alba</i>
	<i>Gnaphalium ramosissimum</i>
	<i>Ranunculus uncinatus</i>
BAREGROUND COVER	<i>Bareground</i>
BITTER DOGBANE	<i>Apocynum androsaemifolii</i>
BLACKBERRY	<i>Rubus ursinus</i>
BLUE-BLOSSOM	<i>Ceanothus thyrsiflorus</i>
BLUE-EYED MARY	<i>Collomia parviflora</i>
BRISTLY OX-TONGUE	<i>Picris echioides</i>
BUCKWHEAT	<i>Eriogonum nudum</i>
BULL THISTLE	<i>Cirsium vulgare</i>
CALIFORNIA BUTTERCUP	<i>Ranunculus californicus</i>
CALIFORNIA POPPY	<i>Eschscholzia californica</i>
CALIFORNIA ROSE	<i>Rosa californica</i>
CANADA THISTLE	<i>Cirsium arvense</i>
COAST HEDGE NETTLE	<i>Stachys ajugoides var. rigid</i>
COAST MANROOT	<i>Marah oreganus</i>
COMMON PLANTAIN	<i>Plantago lanceolata</i>
COMMON SOW THISTLE	<i>Sonchus oleraceus</i>
COMMON YARROW	<i>Achillea millefolium</i>
COYOTE BRUSH	<i>Baccharis pilularis</i>
DANDELION	<i>Taraxacum officinale</i>
DOUGLAS FIR	<i>Pseudotsuga menziesii</i> var.
EVERGREEN-VIOLET	<i>Viola sempervirens</i>
FLAX	<i>Linum bienne</i>
FLEABANE DAISY	<i>Erigeron foliosus</i>
GOOSE GRASS	<i>Galium aparine</i>
HAIRY CATS EAR	<i>Hypochaeris radicata</i>
HAIRY HONEYSUCKLE	<i>Lonicera hispidula</i> var. <i>vaci</i>
HARVEST BROIAEA	<i>Brodiaea elegans</i> <i>elegans</i>
ITHURIEL'S SPEAR	<i>Triteleia laxa</i>
LOTUS SPECIES	<i>Lotus</i> sp.

LUPINE	<i>Lupinus spp.</i>
MICROSERIS SPECIES	
MINIATURE LUPINE	<i>Lupinus bicolor</i>
MONKEYFLOWER	<i>Mimulus dentatus</i>
PACIFIC MADRONE	<i>Arbutus menziesii</i>
PACIFIC OENANTHE	<i>Oenanthe sarmentosa</i>
PEARLY EVERLASTING	<i>Anaphalis margaritacea</i>
PONDEROSA PINE	<i>Pinus ponderosa</i>
PUSSY EARS	<i>Calochortus tolmiei</i>
ROCK COVER	<i>Rock</i>
RUSH	<i>Juncus species</i>
SEDGE SPECIES	<i>Carex sp.</i>
SELF-HEAL	<i>Prunella vulgaris</i>
SHEEP SORREL	<i>Rumex acetosella</i>
SNEEZEWEED	<i>Helenium puberulum</i>
STORKSBILL	<i>Erodium cicutarium</i>
SWORD FERN	<i>Polystichum munitum</i>
TAN OAK	<i>Lithocarpus densiflorus var</i>
TOOTHED COAST FIREWEED	<i>Erichthites minima</i>
TRIFOLIUM SPECIES	<i>Trifolium sp.</i>
UNKNOWN BEDSTRAW	<i>Gallium spp.</i>
UNKNOWN GRASS	<i>Poaceae</i>
VETCH SPP.	<i>Vicia spp.</i>
WESTERN BRACKEN FERN	<i>Pteridium aquilinum var. p</i>
WHOOOLY SUNFLOWER	<i>Eriophyllum lanatum</i>
WILLOW SPECIES	<i>Salix spp.</i>
WOOD PEA	<i>Lathyrus vestitus</i>
WOOD ROSE	<i>Rosa gymnocarpa</i>
WOOD STRAWBERRY	<i>Fragaria vesca</i>
WOODLAND MADIA	<i>Madia madiooides</i>
YAMPAH	<i>Perideridia kelloggii</i>
YERBA BUENA	<i>Satureja douglasii</i>
YERBA DE SELVA	<i>Whipplea modesta</i>

SERAL STAGE

Young Forests

Plants

COMMON	SCIENTIFIC
	<i>Gnaphalium tuleo-alba</i>
	<i>Lotus purshianus</i>
BAREGROUND COVER	<i>Bareground</i>
BIG-LEAF MAPLE	<i>Acer macrophyllum</i>
BIRDFOOT TREFOIL	<i>Lotus corniculatus</i>
BLACKBERRY	<i>Rubus ursinus</i>
BLEEDING HEART	<i>Dicentra formosa</i>
BLUE-BLOSSOM	<i>Ceanothus thyrsiflorus</i>
BRISTLY OX-TONGUE	<i>Picris echioides</i>
BULL THISTLE	<i>Cirsium vulgare</i>
BUTTERWEED	<i>Senecio sylvaticus</i>
BUTTERWEED SPECIES	<i>Senecio spp.</i>
CALIFORNIA BEDSTRAW	<i>Galium californicum</i>
CALIFORNIA BUTTERCUP	<i>Ranunculus californicus</i>
CALIFORNIA FIGWORT (BEE PLANT)	<i>Scrophularia californica</i>
CALIFORNIA BAY	<i>Umbellularia californica</i>
CALYPSO ORCHID	<i>Calypso bulbosa</i>
CANYON GOOSEBERRY	<i>Ribes menziesii</i>
CASCARA	<i>Rhamnus purshiana</i>
CEANOOTHUS SPP.	<i>Ceanothus spp.</i>
CENTAURY	<i>Centaurea muehlenbergii</i>
COAST HEDGE NETTLE	<i>Stachys ajugoides</i> var. <i>rigid</i>
COAST MANROOT	<i>Marah oreganus</i>
COAST TARWEED	<i>Madia sativa</i>
COMMON LARGE MONKEY FLOWER	<i>Mimulus guttatus</i>
COMMON PLANTAIN	<i>Plantago lanceolata</i>
COMMON SOW THISTLE	<i>Sonchus oleraceus</i>
COMMON VELVET GRASS	<i>Holcus lanatus</i>
COMMON YARROW	<i>Achillea millefolium</i>

COYOTE BRUSH	<i>Baccharis pilularis</i>
DANDELION	<i>Taraxacum officianale</i>
DEER FERN	<i>Blechnum spicant</i>
DOUG FIR STUMP	<i>Pseudotsuga menziesii</i> var.
DOUGLAS FIR	<i>Pseudotsuga menziesii</i> var.
DOUGLAS IRIS	<i>Iris douglasiana</i>
DWARF OREGON GRAPE	<i>Berberis nervosa</i>
EVERGREEN HUCKLEBERRY	<i>Vaccinium ovatum</i>
EVERGREEN-VIOLET	<i>Viola sempervirens</i>
FALSE SOLOMON'S SEAL	<i>Smilacina racemosa</i>
FOXGLOVE	<i>Digitalis purpurea</i>
GOLDENBACK FERN	<i>Pentagramma triangularis</i>
GRAND FIR	<i>Abies grandis</i>
HAIRY CATS EAR	<i>Hypochaeris radicata</i>
HAIRY HONEYSUCKLE	<i>Lonicera hispidula</i> var. <i>vaci</i>
HEDGE NETTLE SPECIES	<i>Stachys</i> spp.
HORSETAIL	<i>Equisetum</i> spp.
HOUNDS TONGUE	<i>Cynoglossum grande</i>
INDIAN PINK	<i>Silene californica</i>
ITHURIEL'S SPEAR	<i>Triteleia laxa</i>
KELLOGGS LILY	<i>Lilium kelloggii</i>
LADY FERN	<i>Athyrium filix-femina</i>
LEOPARD LILY	<i>Lilium pardalinum</i>
LITTER COVER	<i>Litter</i>
LOTUS SPECIES	<i>Lotus</i> sp.
LUPINE	<i>Lupinus rivularis</i>
LUPINE	<i>Lupinus</i> spp.
MANZANITA	<i>Arctostaphylos columbiana</i>
MANZANITA	<i>Arctostaphylos</i> spp.
MILK MAIDS	<i>Cardamine californica</i>
MINERS LETTUCE	<i>Claytonia perfoliata</i>
NOOTKA ROSE	<i>Rosa nutkana</i>
NORTH WILLOW HERB	<i>Epilobium ciliatum</i> ssp. <i>cili</i>
OCEAN SPRAY	<i>Holodiscus discolor</i>

OREGON GRAPE SPECIES	<i>Berberis spp.</i>
OREGON OAK	<i>Quercus garryana</i> <i>garryana</i>
OTHER COVER	<i>Other</i>
OXE-EYED DAISY	<i>Leucanthemum vulgare</i>
PACIFIC MADRONE	<i>Arbutus menziesii</i>
PACIFIC SNAKEROOT	<i>Sanicula crassicaulis</i>
PACIFIC STARFLOWER	<i>Trifolalis latifolia</i>
PAMPAS GRASS	<i>Cortaderia selloana</i>
PEARLY EVERLASTING	<i>Anaphalis margaritacea</i>
POISON OAK	<i>Toxicodendron diversilobum</i>
PURPLE CUDWEED	<i>Gnaphalium purpurium</i>
QUEEN ANNES LACE	<i>Daucus carota</i>
RATTLESNAKE WEED	<i>Torilis arvensis</i>
RED ALDER	<i>Alnus rubra</i>
RED ELDERBERRY	<i>Sambucus racemosa</i> var. <i>ra</i>
RED FIREWEED	<i>Epilobium angustifolium</i>
RED HENBIT	<i>Lamium purpureum</i>
RED HUCKLEBERRY	<i>Vaccinium parvifolium</i>
RED-FLOWERING Currant	<i>Ribes sanguineum</i> var. <i>glut</i>
REDWOOD	<i>Sequoia sempervirens</i>
REDWOOD IVY	<i>Vancouveria planipetala</i>
REDWOOD SORREL	<i>Oxalis oregano</i>
REDWOOD STUMP	<i>Sequoia sempervirens</i> <i>stum</i>
ROCK COVER	<i>Rock</i>
ROSE SPECIES	<i>Rosa sp.</i>
RUSH	<i>Juncus species</i>
SALAL	<i>Gaultheria shallon</i>
SALMONBERRY	<i>Rubus spectabilis</i>
SELF-HEAL	<i>Prunella vulgaris</i>
SHEEP SORREL	<i>Rumex acetosella</i>
SLASH	<i>Slash pile</i>
SMALL FLOWERED BUTTERCUP	<i>Ranunculus parviflorus</i>
STREAM VIOLET	<i>Viola glabella</i>
SUGARSCOOPS	<i>Tiarella trifoliata</i> var. <i>unifo</i>

SWEET CICELY	<i>Osmorrhiza chilensis</i>
SWORD FERN	<i>Polystichum munitum</i>
TALL OREGON GRAPE	<i>Berberis aquifolium</i>
TAN OAK	<i>Lithocarpus densiflorus</i> var.
THIMBLEBERRY	<i>Rubus parviflorus</i>
THISTLE SPECIES	<i>Circium</i> sp.
TOOTHED COAST FIREWEED	<i>Eriichtites minima</i>
TRAIL PLANT	<i>Adenocaulon bicolor</i>
TRILLIUM	<i>Trillium</i> spp.
UNKNOWN BEDSTRAW	<i>Gallium</i> spp.
UNKNOWN GRASS	<i>Poaceae</i>
UNKNOWN MOSS	<i>MOSS</i>
VANILLA LEAF	<i>Achlys triphylla</i>
VARI-LEAF COLLOMIA	<i>Collomia heterophylla</i>
VETCH SPP.	<i>Vicia</i> spp.
WESTERN BRACKEN FERN	<i>Pteridium aquilinum</i> var. <i>p</i>
WESTERN COLTSFOOT	<i>Petasites frigidus</i> var. <i>palm</i>
WESTERN HEMLOCK	<i>Tsuga heterophylla</i>
WESTERN RED CEDAR	<i>Thuja plicata</i>
WESTERN WAKE ROBIN	<i>Trillium ovatum</i>
WHITE HAWKWEED	<i>Hieracium albiflorum</i>
WHITE INSIDE-OUT FLOWER	<i>Vancouveria hexandra</i>
WHITE-STEMMED RASBERRY	<i>Rubus leucodermis</i>
WHOOLY SUNFLOWER	<i>Eriophyllum lanatum</i>
WILD GINGER	<i>Asarum caudatum</i>
WILLOW SPECIES	<i>Salix</i> spp.
WOOD COVER	<i>Woody debris</i>
WOOD FERN	<i>Dryopteris expansa</i>
WOOD PEA	<i>Lathyrus vestitus</i>
WOOD ROSE	<i>Rosa gymnocarpa</i>
WOOD STRAWBERRY	<i>Fragaria vesca</i>
WOODLAND MADIA	<i>Madia madioides</i>
YELLOW BUSH LUPINE	<i>Lupinus arboreas</i>
YERBA BUENA	<i>Satureja douglasii</i>

